

Appendix C. Magnetic and Electrical (EMF) Profiles

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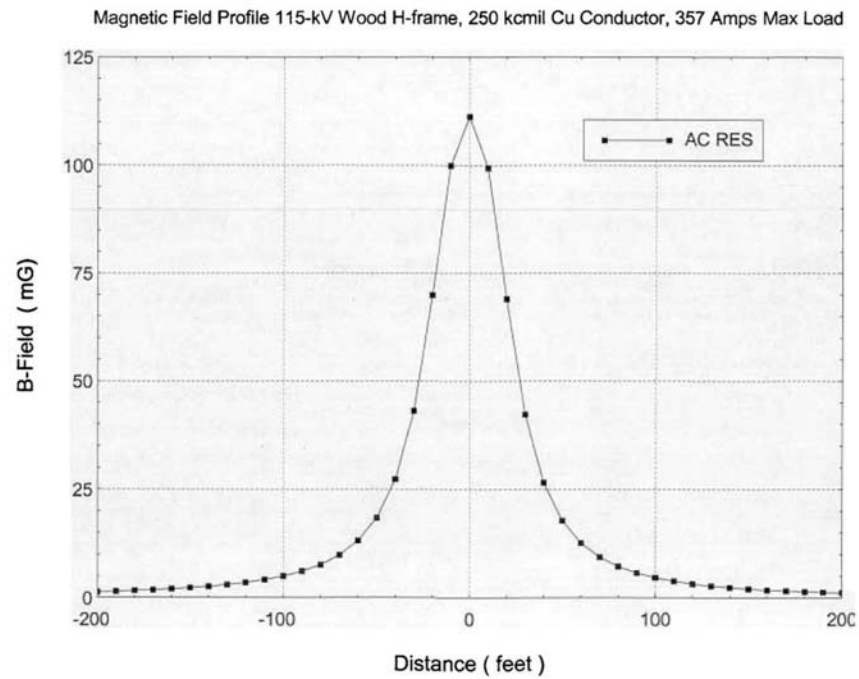


Figure C- 1 Magnetic Field Profile, Existing Ault-Cheyenne and Cheyenne-Miracle Mile 115-kV transmission lines.

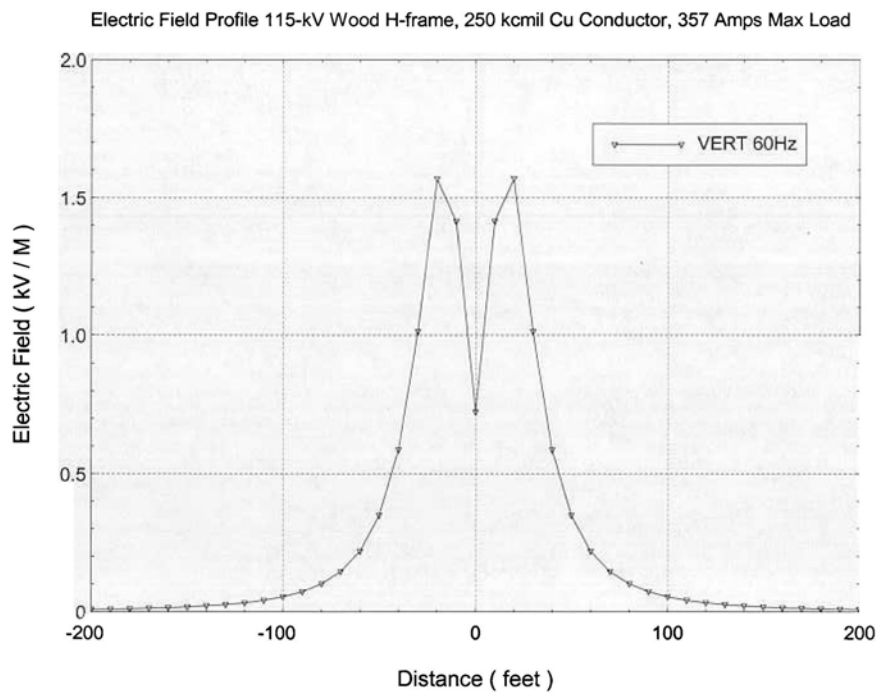


Figure C- 2 Electric Field Profile, Existing Ault-Cheyenne and Cheyenne-Miracle Mile 115-kV transmission lines.

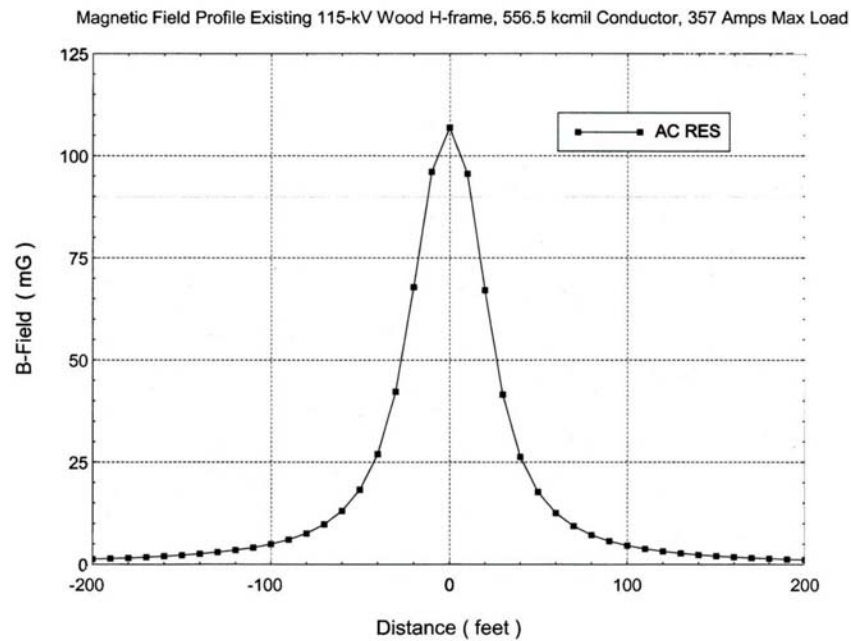


Figure C- 3 Magnetic Field Profile, Existing Cheyenne-Happy Jack and Happy Jack-Miracle Mile 115-kV transmission lines.

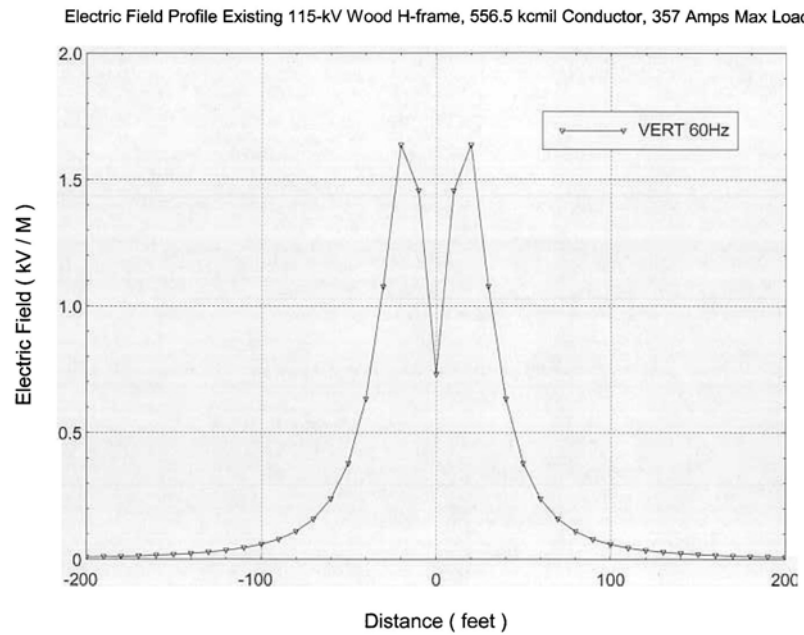


Figure C- 4 Electric Field Profile, Existing Cheyenne-Happy Jack and Happy Jack-Miracle Mile 115-kV transmission lines.

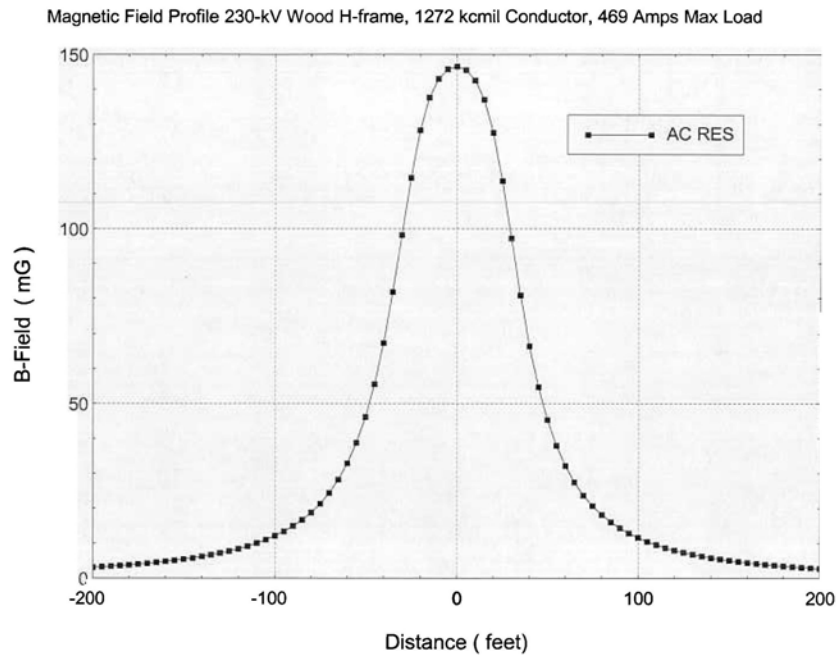


Figure C- 5 Magnetic Field Profile, Proposed Happy Jack-Miracle Mile section of the Cheyenne-Miracle Mile 230-kV transmission line

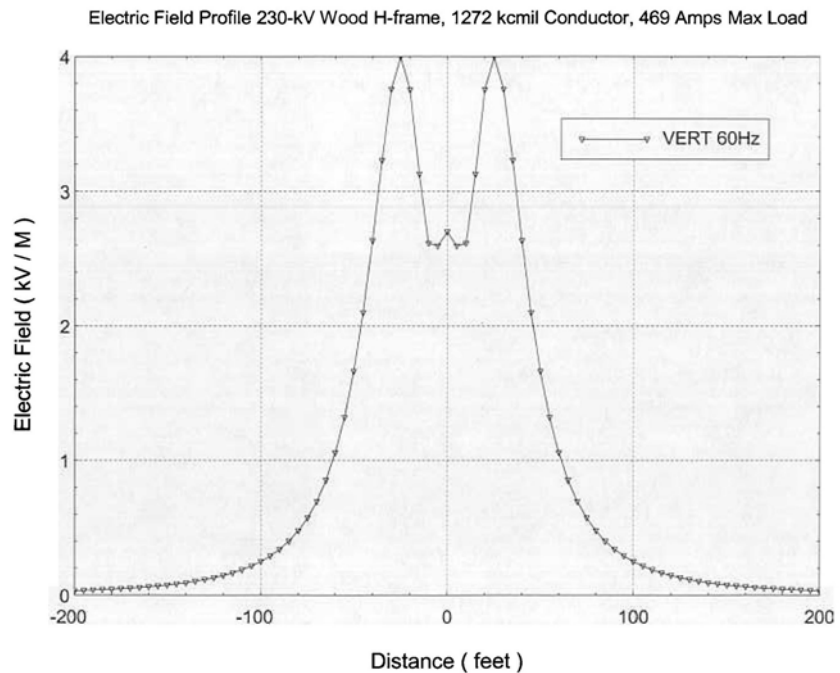


Figure C- 6 Electric Field Profile, Proposed Happy Jack-Miracle Mile section of the Cheyenne-Miracle Mile 230-kV transmission line

Magnetic Field Profile 115/230 -kV Double Circuit Single Steel Pole, 1272/1272 kcmil Conductors, 469/469 Amps Max. Load

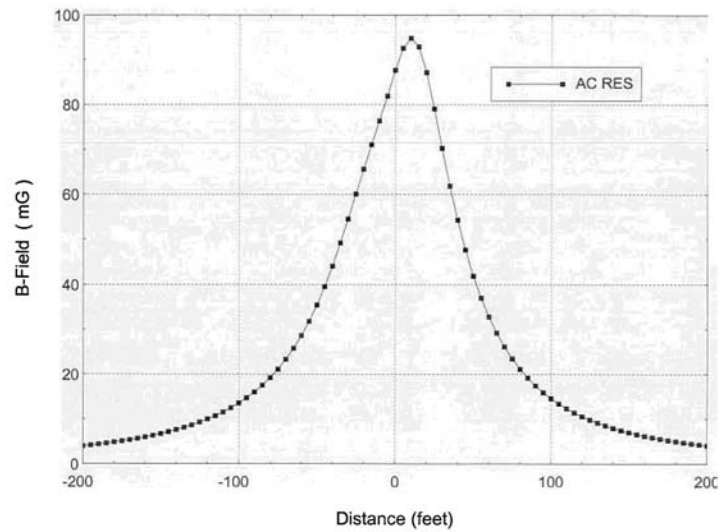


Figure C- 7 Magnetic Field Profile, Proposed Cheyenne-Happy Jack area section of the Cheyenne-Miracle Mile 230-kV transmission line; proposed Cheyenne-Happy Jack section of the Cheyenne-Happy Jack-Miracle Mile 115-kV transmission line; and proposed Ault-Cheyenne 115-kV transmission line.

Electric Field Profile 115/230 -kV Double Circuit Single Steel Pole, 1272/1272 kcmil Conductors, 469/469 Amps Max. Load

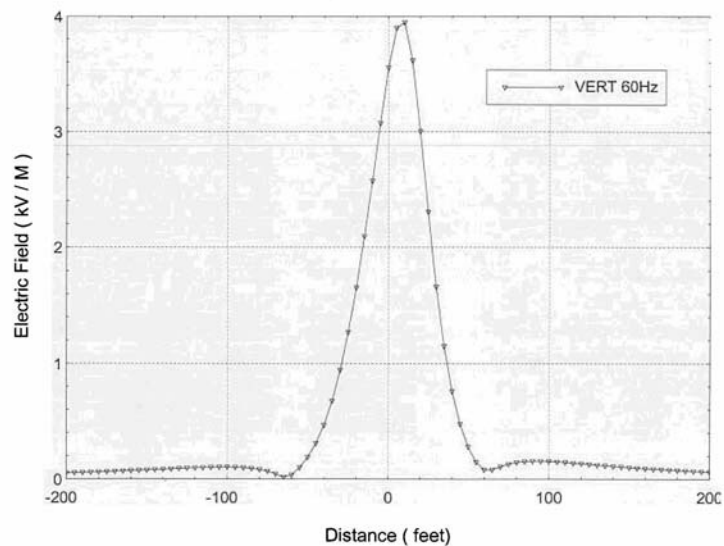


Figure C- 8 Electric Field Profile, Proposed Cheyenne-Happy Jack area section of the Cheyenne-Miracle Mile 230-kV transmission line; proposed Cheyenne-Happy Jack section of the Cheyenne-Happy Jack-Miracle Mile 115-kV transmission line; and proposed Ault-Cheyenne 115-kV transmission line.

Magnetic Field Profile 230-kV Double Circuit Lattice Tower, 954/954 kcmil Conductors, 469 Amps Max Load

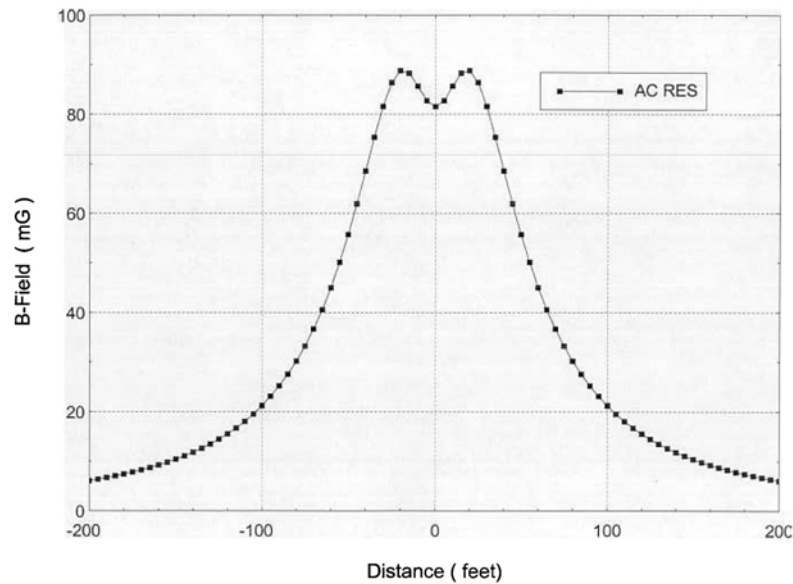


Figure C- 9 Magnetic Field Profile, Existing 3-mile Double Circuit Lattice Tower section of the Archer-Ault 230-kV and Ault-Cheyenne 115-kV transmission lines.

Electric Field Profile 230-kV Double Circuit Lattice Tower, 954/954 kcmil Conductors, 469 Amps Max Load

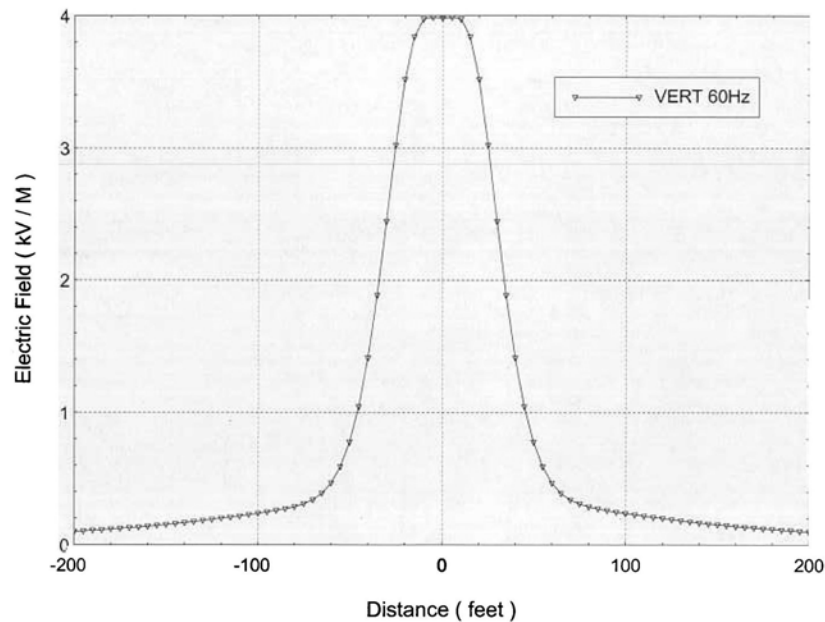


Figure C- 10 Electric Field Profile, Existing 3-mile Double Circuit Lattice Tower section of the Archer-Ault 230-kV and Ault-Cheyenne 115-kV transmission lines.

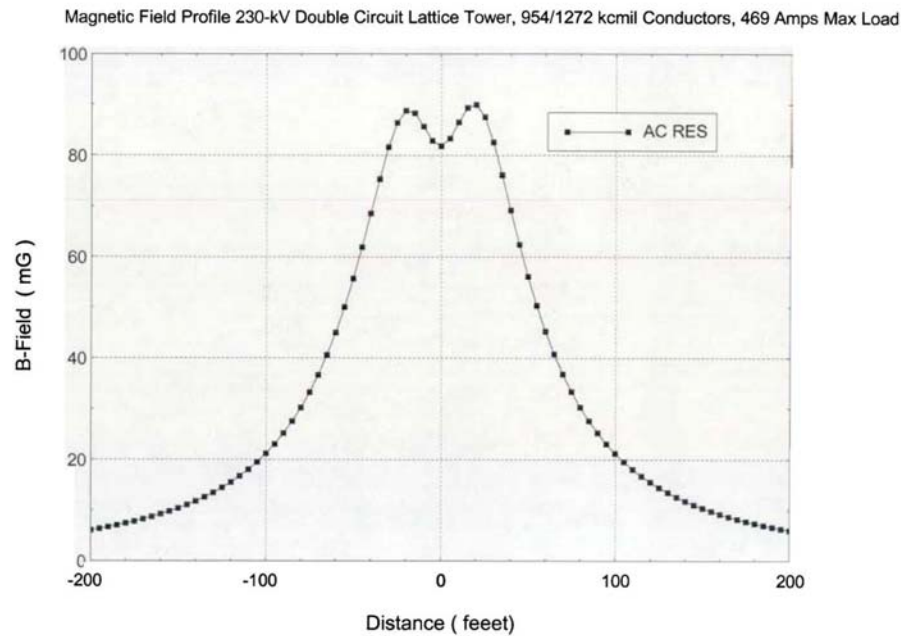


Figure C- 11 Magnetic Field Profile, Proposed 3-mile Double Circuit Lattice Tower section of the Archer-Ault 230-kV and Ault-Cheyenne 230-kV transmission lines.

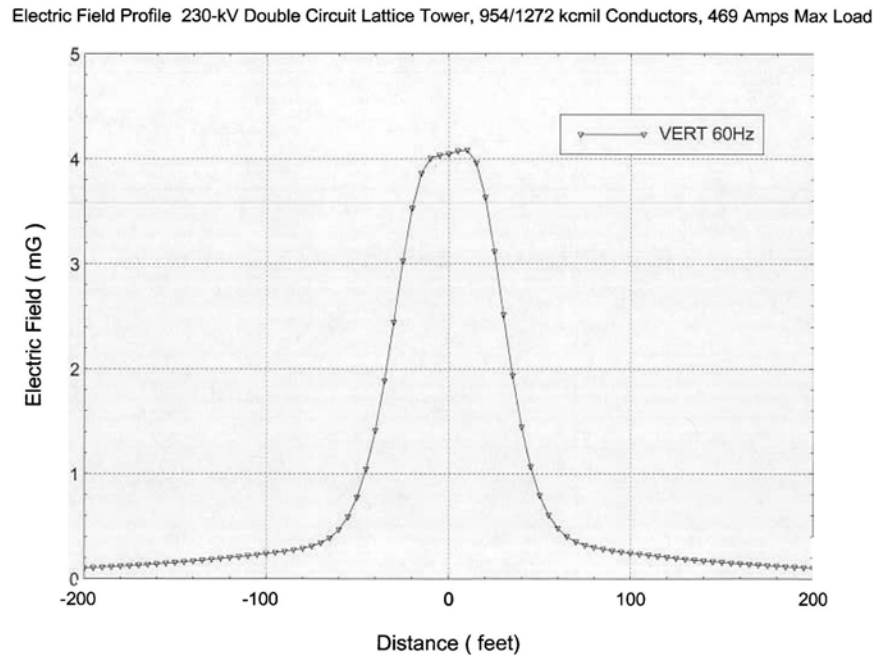


Figure C- 12 Electric Field Profile, Proposed 3-mile Double Circuit Lattice Tower section of the Archer-Ault 230-kV and Ault-Cheyenne 230-kV transmission lines.

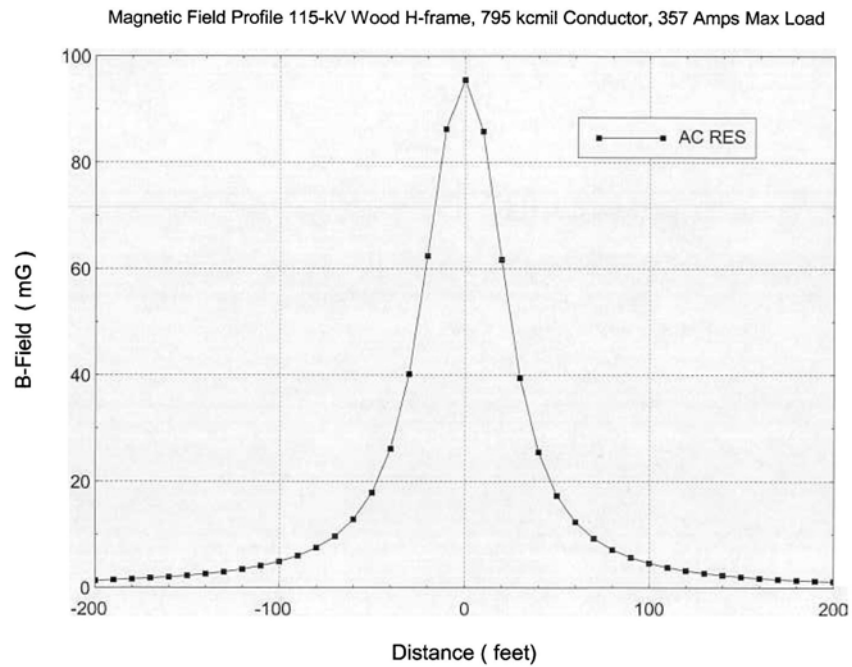


Figure C- 13 Magnetic Field Profile, Proposed 3-mile Single Circuit Wood H-frame section of the Ault-Cheyenne 115-kV transmission line.

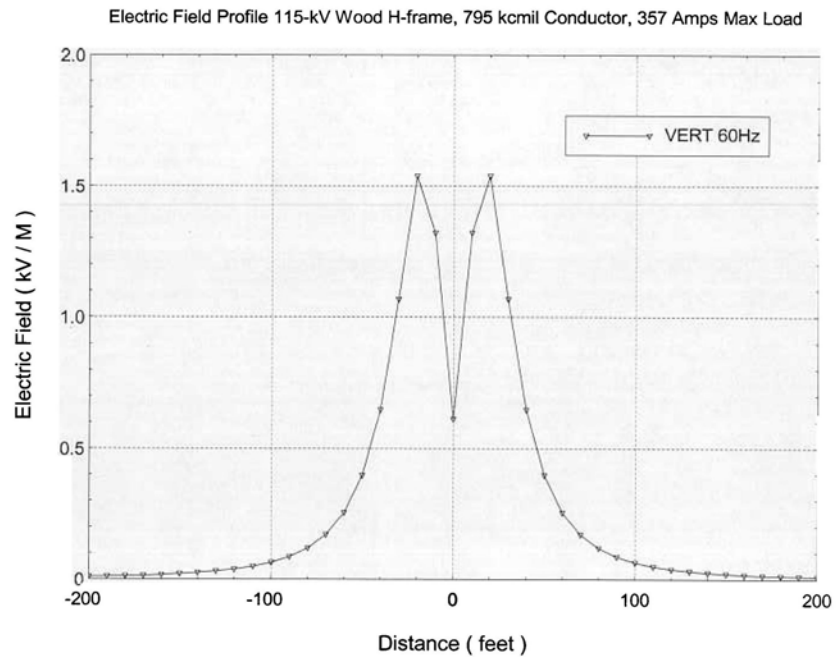


Figure C- 14 Electric Field Profile, Proposed 3-mile Single Circuit Wood H-frame section of the Ault-Cheyenne 115-kV transmission line.

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